Space Debris Activities in China-2021

Report to IAA Space Debris Committee
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11th China National Space Debris Conference

- Regular Conference held every two years, started in 2001.
- January 9 - 11, 2022, Wenchang, Hainan, China.

Group photo of the conference representatives
11th China National Space Debris Conference

Sessions:
- measurements,
- modelling,
- protection,
- mitigation,
- ADR,
- Space Traffic Management,
- NEOs,
- legal business, etc.
- large satellites constellation on LEO, etc.

152 participants.
76 presentations, 25 posters,
11th China National Space Debris Conference

● Plenary Lecture

1. Development thoughts on space debris environmental management.
2. Progress and prospect of Ali 1.2m Wide-field survey telescope.
3. Satellite Internet development and related space debris problems.
4. Motion characteristics of large space debris and flexible drag ADR.
5. Near collision events of China Space and safety precautions.
6. Micro debris environment and advances in spacecraft protection technology.
1999: The Chinese Special financial plan for Space Debris Research, which is part of “Five-year plan for the national economy”.  
* 500 million RMB per five year.  
* released the 20 year achievement exhibition album.

1. Development History  
2. Innovation & Application  
3. Communication & Cooperation  
4. Future Prospects
The 1st China Planetary Defense Conference

- Regular Conference will be held every two years.
The 1st China Planetary Defense Conference

- 315 participants.
- 129 presentations.

Group photo of the conference representatives
The 1st China Planetary Defense Conference

Sessions:

- Discovery, observation, characteristic of NEA.
- Monitoring and early warning of NEA.
- Hazard assessment of NEA impact.
- NEA Deflection and destruction modeling and testing.
- Impact risk response system and capacity development.
- Relevant mechanisms, policies and regulations.
- International cooperation on impact risk Response
Debris related Xiangshan Science Conference

The 683th Xiangshan Science Conference (Oct. 29-30, 2020)

Frontier sciences and key technologies for Space Traffic Management
National Symposium on Hypervelocity Impact

- ~60 presentations, ~200 participants.

- **Sessions:**
  1. HVI phenomenon and mechanism.
  2. HVI launch, diagnosis and testing techniques.
  3. HVI Numerical simulation and analysis.
  4. Space debris protection of spacecraft.
  5. NEOs impact effects and defense.
  6. Others.

- The 1\(^{\text{st}}\): 2013.07, Mianyang.
- The 2\(^{\text{nd}}\): 2016.12, Beijing.
- The 3\(^{\text{rd}}\): 2019.06, Haerbin.
- The 4\(^{\text{th}}\): 2022.05, Shanghai